FRAMINGHAM RISK SCORE (FRS)

Estimation of 10-year Cardiovascular Disease (CVD) Risk

Step 1¹

In the "points" column enter the appropriate value according to the patient's age, HDL-C, total cholesterol, systolic blood pressure, and if they smoke or have diabetes. Calculate the total points.

Risk Factor		Risk F		Points		Points
		Men		Women		
Age						
30-34		0		0		
35-		2		2		
40-	40-44		5		4	
45-49		7		5		
50-54		8		7		
55-	-59	10		8		
60-	-64	11		9		
65-	-69	12		10		
70-	-74	14		11		
75	5+	15		12		
HDL-C (
	>1.6		-2		-2	
	1.3-1.6		-1		-1	
1.2-	1.2-1.29		0		0	
0.9-	1.19	1		1		
	<0.9		2		2	
Total Ch	Total Cholesterol					
	<4.1		0		0	
4.1-		1		1		
5.2-0		2		3		
6.2-		3		4		
>7		4 Not		5		
	Systolic Blood		Treated	Not	Treated	
	Pressure (mmHg)			Treated		
	<120		0	-3	<u>:</u> -1	
	120-129		2	0	2	
	130-139		3	1	3	
140-149		2	4	2	5	
150-159		2	4	4	6	
160+		3	5		. 7	
Smoker	Yes	4		3		
	No	0		0		
Diabetes	Yes	statin-indicat		ed condition		
Diabetes	No	0		0		
Total Point	Total Points		<u> </u>			
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Date: Patient's Name:

Step 21 Using the total points from Step 1, determine the 10-vear CVD risk* (%)

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Total Points	10-Year CVD Risk (%)*		
	Men	Women	
-3 or less	<1	<1	
-2	1.1	<1	
-1	1.4	1.0	
0	1.6	1.2	
1	1.9	1.5	
2	2.3	1.7	
3	2.8	2.0	
4	3.3	2.4	
5	3.9	2.8	
6	4.7	3.3	
7	5.6	3.9	
8	6.7	4.5	
9	7.9	5.3	
10	9.4	6.3	
11	11.2	7.3	
12	13.3	8.6	
13	15.6	10.0	
14	18.4	11.7	
15	21.6	13.7	
16	25.3	15.9	
17	29.4	18.51	
18	>30	21.5	
19	>30	24.8	
20	>30	27.5	
21+	>30	>30	

Step 31 Using the total points from Step 1, determine heart age (in years).

Heart Age, y	Men	Women
<30	<0	<1
30	0	
31		1
32	1	
34	2	2
36	3	3
38	4	
39		4
40	5	
42	6	5
45	7	6
48	8	7
51	9	8
54	10	
55		9
57	11	
59		10
60	12	
64	13	11
68	14	12
72	15	
73		13
76	16	
79		14
>80	≥17	15+

^{*} Double cardiovascular disease risk percentage for individuals between the ages of 30 and 59 without diabetes if the presence of a positive history of premature cardiovascular disease is present in a first-degree relative before 55 years of age for men and before 65 years of age for women. This is known as the modified Framingham Risk Score.3

Using 10-year CVD risk from Step 2, determine if patient is Low, Moderate or High risk.† Indicate Lipid and/or Apo B targets

Risk Level†	Initiate Treatment If:	Primary Target (LDL-C)	Alternate Target
High FRS ≥20%	Consider treatment in all (Strong, High)	• ≤2 mmol/L or ≥50% decrease in LDL-C (Strong, Moderate)	• Apo B ≤0.8 g/L or • Non-HDL-C ≤2.6 mmol/L (Strong, High)
Intermediate FRS 10-19%	LDL-C ≥3.5 mmol/L (Strong, Moderate) For LDL-C <3.5 mmol/L consider if: Apo B ≥1.2 g/L OR Non-HDL-C ≥4.3 mmol/L (Strong, Moderate) Men ≥50 and women ≥60 with risk factor. low HDL-C, impaired fasting glucose, high waist circumference, smoker, hypertension	• ≤2 mmol/L or ≥50% decrease in LDL-C (Strong, Moderate)	Apo B ≤0.8 g/L or Non-HDL-C ≤2.6 mmol/L (Strong, Moderate)
Low FRS <10%	statins generally not indicated	statins generally not indicated	statins generally not indicated
Statin-indicated conditions**	Clinical atherosclerosis* Abdominal aortic aneurysm Diabetes mellitus Age ≥ 40 years 15-Year duration for age ≥ 30 years (DM1) Microvascular disease Chronic kidney disease (age ≥ 50 years) eGFR <60 mL/min/1.73 m2 or ACR > 3 mg/mmol		
Lipid targe	ts LDL-C:	or Apo B:	

<sup>Adapted from: D'Agostino RB et al.(i). General cardiovascular risk profile for use in primary care. The Framingham Heart Study. Circ 2008;117:743-53.
Adapted from: Genest J et al.(i). 2009 Canadian Cardiovascular Society/Canadian quidelines for the diagnosis and treatment of dyslipidemia and prevention of cardiovascular disease in the adult. Can J Cardiol. 2009;25(10):567-579.
Adapted from: Anderson T et al.(i). 2012 Update of the Canadian Cardiovascular Society guidelines for the diagnosis and treatment of</sup> dyslipidemia for the prevention of cardiovascular disease in the adult. Can J Cardiol. 2013;29(2):151-167

[‡] apoB: apolipoprotein B stat, CVD: cardiovascular disease, FRS: Framingham Risk Score, HDL-C: high-density lipoprotein cholesterol,

LDL-C: low-density lipoprotein cholesterol.

* Statins indicated as initial therapy

^{**} Consider LDL-C < 1.8 mmol/L for subjects with acute coronary syndrome (ACS) within past 3 months